

## IN THE SPECIFICATION

Please remove the heading on page 1, line 4 as follows.

### ~~BACKGROUND OF THE INVENTION~~

Please replace the heading on page 1, line 6 as follows.

### CROSS-REFERENCE TO RELATED APPLICATION

~~Cross-Reference to Related Application~~

Please insert the following heading after the paragraph on page 1, lines 7-10.

### BACKGROUND OF THE INVENTION

Please replace the heading on page 1, line 12 as follows.

#### 1. Field of the Invention

Please replace the heading on page 1, line 22 as follows.

#### 2. Description of the Related~~Prior~~ Art

Please replace the heading on page 2, line 4 as follows.

### BRIEF SUMMARY OF THE INVENTION

Please replace the paragraph on page 2, line 19 to page 3, line 2 as follows.

In order to accomplish this object, there is provided an incoming message alarming system. The incoming message alarming system includes, including: a wireless communication system and a messenger service system. The wireless communication system is for receiving an incoming message from a calling mobile communication terminal and transmitting base alarm information including an identification of the calling mobile communication terminal. The, ~~and a~~ messenger service system is for receiving the base alarm information from the wireless

communication system and informing a called subscriber of arrival of the incoming message through a messenger service.

Please replace the paragraph on page 3, lines 3-22 as follows.

Preferably, the wireless communication system may include: a base station, a mobile switching center, and a home location register. The base station is for receiving the incoming message from the calling mobile communication terminal. ~~The~~ a mobile switching center is for receiving the incoming message from the base station and transmitting the base alarm information to a messenger service system. ~~The h~~ and a Home lLocation rRegister is for storing location information of the called subscriber, subscriber information on whether or not the called subscriber is an incoming message alarming service subscriber, and flag information indicating an activation state of the incoming message alarming service. ~~T, and wherein the messenger~~ service system may include: a messenger server and a messenger information database. The messenger server is for receiving the base alarm information from the wireless communication system and transmitting incoming message alarming information indicating arrival of the incoming message to the called mobile communication terminal. ~~The~~ and a messenger information database is for storing an internet protocol (IP) address and a messenger identification (ID) of the called subscriber. ~~T, wherein~~ the messenger server informs the called subscriber of the incoming message's arrival by using the IP address.

Please replace the paragraph on page 3, line 23 to page 4, line 5 as follows.

Alternatively, the messenger service system may include a messenger server for receiving the base alarm

information from the wireless communication system and transmitting incoming message alarming information indicating arrival of the incoming message to the called mobile communication terminal. T,~~wherein the messenger~~ server may include a messenger information database for storing an IP address and a messenger ID of the called subscriber.

Please replace the paragraph on page 4, line 22 to page 5, line 3 as follows.

In order to accomplish the above object, there is provided a wireless communication system, including: a base station and a mobile switching center. The base station is for receiving an incoming message from a calling mobile communication terminal. The,~~and a~~ mobile switching center is for receiving the incoming message from the base station and transmitting base alarm information to a messenger service system.

Please replace the paragraph on page 5, line 17 to page 6, line 1 as follows.

In order to accomplish the above object, there is provided a messenger service system, including: a messenger server and a messenger information database. The messenger server is for transmitting to a called mobile communication terminal incoming message alarming information indicating arrival of an incoming message transmitted from a calling mobile communication terminal. The,~~and a~~ messenger information database is for storing an IP address and a messenger ID of the called subscriber. T,~~wherein the~~ messenger server informs the called subscriber of the incoming message's arrival by using the IP address.

Please replace the paragraph on page 6, lines 18-25 as follows.

In order to achieve the above object, there is provided another messenger service system, including a messenger server that includes a messenger information database. The messenger server is for transmitting to a called mobile communication terminal incoming message alarming information indicating arrival of an incoming message transmitted from a calling mobile communication terminal. ~~The and wherein the messenger server includes a~~ messenger information database is for storing an IP address and a messenger ID of the called subscriber.

Please replace the paragraph on page 7, lines 9-17 as follows.

In order to achieve the above object, there is provided a method for alarming an incoming message of a mobile communication terminal. ~~B, including: transmitting~~ base alarm information including an identification of a called mobile communication terminal is transmitted. ~~T, receiving the base alarm information~~ is received and a search is performed for ~~searching~~ an IP address corresponding to the identification of the called mobile communication terminal. ~~A, and alarming arrival of the incoming message~~ is alarmed to a called subscriber by using the searched IP address through a messenger service.

Please replace the paragraph on page 7, line 18, to page 8, line 1 as follows.

Preferably, ~~said transmitting~~ base alarm information may include ~~receiving an incoming message from a calling mobile communication terminal.~~ A check is performed to determine, checking whether or not the called subscriber is an incoming message alarming service subscriber. ~~I, if the called subscriber is an incoming message alarming service subscriber,~~ then a check is performed to determine ~~checking~~

whether or not the incoming message alarming service has been activated. ~~I, and if~~ the incoming message alarming service has been activated, ~~transmitting~~ the base alarm information is transmitted.

Please replace the paragraph on page 8, lines 2-12 as follows.

Preferably, ~~said~~ alarming arrival of the incoming message to a called subscriber may include: checking whether or not the called subscriber has logged in the messenger service. I; if the called subscriber has logged in the messenger service, a check is performed to determine~~checking~~ whether or not the called subscriber wants to use the incoming message alarming service. ~~I, if~~ the called subscriber wants to use the incoming message alarming service, ~~transmitting~~ the incoming message alarming information is transmitted to a personal computer which the called subscriber has logged in, ~~and creating an~~ incoming message alarming window is created indicating the incoming message's arrival.

Please replace the paragraph on page 8, lines 13-18 as follows.

Preferably, ~~said~~ transmitting base alarm information may further include, ~~if~~ the incoming message alarming service has not been activated, temporarily storing the base alarm information until the incoming message alarming service is activated. ~~W, and when~~ the incoming message alarming service is activated, ~~transmitting~~ the base alarm information is transmitted.

Please replace the paragraph on page 8, line 19 to page 9, line 1 as follows.

Preferably, ~~said~~ alarming arrival of the incoming message to a called subscriber may further include<sup>+</sup>, if the incoming message alarming service has not been activated, temporarily storing the incoming message alarming information until the incoming message alarming service is activated. W~~r~~ and

when the incoming message alarming service is activated, ~~transmitting~~ the incoming message alarming information is transmitted to the personal computer.

Please replace the heading on page 9, line 23 as follows.

DETAILED DESCRIPTION OF THE INVENTION~~PREFERRED EMBODIMENTS~~

Please replace the paragraph on page 10, lines 3-9 as follows.

As shown in FIG. 1, an incoming message alarming system includes a calling mobile communication terminal 10, a called mobile communication terminal 90, a base station 20, a mobile switching center (MSC) 30, a hHome location rRegister (HLR) 40, a messenger server 50, a messenger information database 60, and a personal computer 80 connected to the messenger server 50 over the Internet 70.

Please replace the paragraph on page 11, line 15 to page 12, line 2 as follows.

For example, if the received incoming message is a call, the call may include identifications (e.g., mobile communication terminal number) of the calling mobile communication terminal 10 and the called mobile communication terminal 90. On the other hand, if the received incoming message is a short message, the base alarm information may include identifications of the calling/called mobile communication terminals 10 and 90 and optionally a content of the short message. The base alarm

information may include more information not described in this specification since the incoming message in this specification is not simply limited to the call and the short message.

Please insert the following heading on page 21, line 1 as follows.

#### CLAIMS

Please replace the heading on page 29 as follows.

#### ABSTRACT OF THE DISCLOSURE

~~Abstract of the Disclosure~~